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EXPLANATORY NOTE

1. ENTRIES ARE ARRANGED IN ALPHABETICAL ORDER BY DISEASE.
2. DISEASES ARE INDICATED AT THE BEGINNING OF EACH GROUP.
3. MULTIPLE SUBJECT AREA, TWO OR MORE DISEASES COVERED IN ARTICLE.
4. UNDER DISEASE, ENTRIES ARE ARRANGED IN ALPHABETICAL ORDER BY AUTHOR'S NAME.
5. ON THE RIGHT MARGIN:
   - PIL - Article appears in a periodical (journal) in library.
   - PIL/A - Article authored by PIADL staff member(s).
   - NUMBER - Publication is available in "Reprint File" under indicated number.
   - LIBR. CLASSIF. CALL NUMBER - Book is available in library.
   - CIRC. FILE - Publication is in Circulating Files in library.

MULTIPLE SUBJECT AREA

ANON.
Spain: foot-and-mouth disease.
FMD; ASF.
Vet. Rec. 92(13):344-345, 1973. PIL

ASKAA, G., CHRISTIANSEN, C., and ERNØ, H.
Bovine mycoplasmas: genome size and base composition of DNA.
CBPP; CCPP; Cont. agalactia.
J. Gen. Microbiol. 75(2):283-286, 1973. PIL

BARILE, M.F., and DELGIUDICE, R.A.
Isolations of mycoplasmas and their rapid identification by plate epi-immunofluorescence.
CBPP; CCPP; Cont. agalactia.
In: Pathog. Mycoplasmas; a Ciba Found. Symp., 1972, p. 165-185. New York, Elsevier, x, 404 p., illus., 1972. QR 82.M93 S99

CALLIS, J.J., and others.*
Some foreign animal diseases that pose a threat to the Americas.
Numerous exotic animal diseases mentioned.
In: Inter-Am. Meet. Minist. Level Foot-and-Mouth Dis. and Zoonoses Control, 6th, Medellin, Colombia, 1973, RICAZ6/21, [Tab No. 21], 13 p. Washington, D.C., Pan Am. Health Organ., 1973.
*A.H. Dardiri, D.H. Ferris, and J.L Hyde. (PIL/A) SF 793 [illegible]2

CARTER, G.R
Diagnostic procedures in veterinary microbiology.
2nd ed. Springfield, Ill., Charles C. Thomas, viii, 362 p., illus., 1973.
CBPP; CCPP; Cont. agalactia. SF 757.6 [illegible]3

DRZENIEK, R.
Viral and bacterial neuraminidases.
Rinderpest; Fowl plague.
In: Curr. Top. Microbiol. Immunol. 59:35-74, ed. by W. Arber, and others. New York, Springer-Verlag, 244 p., illus., 1972. QR 360 C4

FRANCIS, J
Susceptibility of Bos indicus and Bos taurus cattle to pleuropneumonia.
CBPP; Rinderpest.
Vet. Rec. 92(15):401, 1973. PIL

FURNESS, G., DeMAGGIO, M., and PETERSON, J.E.
Morphological changes induced during the fixation of Mycoplasma mycoides for electron microscopy.
CBPP; CCPP.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 79(M36), 1973. PIL

GERBER, A., SAUTER, Chr., and LINDENMANN, J.
Fowl plague virus adapted to human epithelial tumor cells and human myeloblasts in vitro. II. Replication in human leukemic myeloblast cultures.
Fowl plague; VSV.
Arch. Gesamte Virusforsch. 40(3-4):255-264, 1973. PIL

HAMMOND, J.A., and BRANAGAN, D.
The disease factor in plans for the domestication of wild ruminants in Africa.
Rinderpest; FMD; RVF; Lumpy skin; Cont. ecthyma; Wesselsbron; E.C. fever; Bov. mamm.
Vet. Rec. 92(14):367-369, 1973. PIL

HOLLAND, J.J., and DOYLE, M.
Attempts to detect homologous autointerference in vivo with influenza virus and vesicular stomatitis virus.
VSV; RVF.
Infect. Immun. 7(4):526-531, 1973. PIL

ITO, Y., and others.*
Structure of bovine respiratory syncytial virus.
Ephemeral fever; Bluetongue-Cattle.
Arch. Gesamte Virusforsch. 40(3-4):198-204, 1973.
*Y. Tanaka, Y. Inaba, and T. Omori. PIL

LAL, S.M., and SINGH, I.P.
Buffalopox virus. (Preliminary report.) Brief report.
Sheep pox; Goat pox.
Arch. Gesamte Virusforsch. 40(3-4):390-391, 1973. PIL

MULTIPLE SUBJECT AREA

LUSCRI, B.J.
Some aspects on the titration of the antiviral property of interferons.
VSV; VEE.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 259(V391), 1973. PIL

MANILOFF, J.
Cytology of the mycoplasmas.
CBPP; CCPP.
In: Pathog. Mycoplasmas; a Ciba Found. Symp., 1972, p. 67-91. New York, Elsevier, x, 404 p., illus., 1972. QR 82.M93 S99

MAYR, A.
Resultats du Premier Congres Veterinaire Europeen sur la Medecine Veterinaire et l'Environnement.
[Translation of article entitled: Ergebnisse des I. Europäischen Tierärztekongresses, Veterinärmedizin und Umwelt.]
FMD; Fowl plague.
Bull. Off. Int. Epizoot. 77(9-10):1483-1494, 1972. PIL

NEVILL, E.M., and ANDERSON, D.
Host preferences of Culicoides midges (Diptera: Ceratopogonidae) in South Africa as determined by precipitin tests and light trap catches.
AHS; Bluetongue-Cattle.
Onderstepoort J. Vet. Res. 39(3):147-151, 1972. PIL

OMOHUNDRO, R.E.
Emergency programs operations.
CBPP; FMD; VEE.
In: Inter-Am. Meet. Minist. Level Foot-and-Mouth Dis. and Zoonoses Control, 6th, Medellin, Colombia, 1973, [Tab No. 5], 6 p., RICAZ6/5. Washington, D.C., Pan Am. Health Organ., 1973. SF 793 I2

PROVOST, A.
Recherches immunologiques sur la peripneumonie.
XIV. Description de deux techniques applicables sur le terrain pour le diagnostic de la maladie. [Immunological studies on contagious bovine pleuropneumonia. XIV. Description of two field techniques for the diagnosis of the disease.]
English summary.
CBPP; Rinderpest.
Rev. Elev. Med. Vet. Pays Trop. 25(4):475-496, 1972. PIL

PROVOST, A., and BORREDON, C.
Un vaccin mixte antibovipestique-antiperipneumonique lyophilise utilisable, sur le terrain, sans refrigeration. I. Selection de virions bovipestiques a inactivation thermique retardee. [A combined lyophilised rinderpest-CBPP vaccine to be used in the field without refrigeration. I. Selection of rinderpest virions with delayed thermal inactivation properties.] English summary.
CBPP; Rinderpest.
Rev. Elev. Med. Vet. Pays Trop. 25(4):507-520, 1972. PIL

RABINOWITZ, S.G., and ADLER, W.H.
Host defenses during primary Venezuelan equine encephalomyelitis virus infection in mice. I. Passive transfer of protection with immune serum and immune cells.
VEE; VSV.
J. Immunol. 110(5):1345-1353, 1973. PIL

RAZIN, S., KAHANE, I., and KOVARTOVSKY, J.
Immunochemistry of mycoplasma membranes.
CBPP; CCPP.
In: Pathog. Mycoplasmas; a Ciba Found. Symp., 1972, p. 93-122. New York, Elsevier, x, 404 p., illus., 1972. QR 82.M93 S99

SCHNEIDER, L.G., and others.*
Rabies group-specific ribonucleoprotein antigen and a test system for grouping and typing of rhabdoviruses.
VSV; Ephemeral fever.
J. Virol. 11(5):748-755, 1973.
*B. Dietzschold, R.E. Dierks, W. Matthaeus, P.-J. Enzmann, and K. Strohmaier. PIL

SPOONER, D.F., and SYKES, G.
Laboratory assessment of antibacterial activity.
CBPP; FMD; Fowl plague.
In: Methods Microbiol, v. 7B:211-276, ed. by J.R. Norris, and D.W. Ribbons. New York, Academic Press, xv, 388 p., illus., 1972. QR 65 M3

STEELE, J.H.
A bookshelf on veterinary public health.
Numerous exotic animal diseases mentioned.
Am. J. Public Health 63(4):291-311, 1973. PIL

TESSLER, J.
Comparative study of agar mediums for propagation of ruminant mycoplasma.
CBPP; Cont. agalactia; CCPP. PIL/A &
Can. J. Comp. Med. 37(2):214-216, 1973. #7374

TESSLER, J.
Incident light immunofluorescence of alcohol-fixed colonies of ruminant mycoplasma.
CCPP; CBPP; Cont. agalactia.
Can. J. Comp. Med. 37(2):207-209, 1973. PIL/A & #7373

U.S. ANIMAL AND PLANT HEALTH INSPECTION SERVICE. VETERINARY SERVICES. EMERGENCY PROGRAMS.
Foreign animal diseases report, March-April, 1973.
FMD; Rinderpest; VEE; SVD. CIRC.FILE

U.S. ANIMAL AND PLANT HEALTH INSPECTION SERVICE. VETERINARY SERVICES. EMERGENCY PROGRAMS.
Foreign animal diseases report, May, 1973.
VEE; FMD; SVD. CIRC.FILE

U.S. DEPARTMENT OF AGRICULTURE.
USDA seeks comments on change requested in foot-and-mouth regulations.
FMD; Rinderpest.
News, 2 p., USDA-1498-73, May 14, 1973. GOV.PUBL.DRWR.

VITTOZ, R.
Le role des modifications de l'environnement dans l'evolution des maladies infectieuses des animaux considerees sous l'angle international.
FMD; Rinderpest; AHS; VEE.
Bull. Off. Int. Epizoot. 77(9-10):1495-1519, 1972. PIL

WEINER, L.P., JOHNSON, R.T., and HERNDON, R.M.
Viral infections and demyelinating diseases.
Visna; Scrapie.
N. Engl. J. Med. 288(21):1103-1110, 1973. PIL

AFRICAN HORSE SICKNESS

LECATSAS, G.
Electron microscopic and serological studies on Simian virus S.A. 11 and the "related" O agent.
Onderstepoort J. Vet. Res. 39(3):133-137, 1972. PIL

RAMAKANT, B.B.L. Mathur, SHARMA, R.N., and KUMAR, S.
Studies on the incorporation of type IX strain in the African horsesickness vaccine: a note.
Indian J. Anim. Sci. 42(9):718-719, 1972. PIL

CONTAGIOUS BOVINE PLEUROPNEUMONIA

BLACK, F.T.
Modifications of the growth inhibition test and its application to human T-mycoplasmas.
Appl. Microbiol. 25(4):528-533, 1973. PIL

FURNESS, G., and DeMAGGIO, M.
The growth cycle of *Mycoplasma mycoides* var. *mycoides*.
J. Infect. Dis. 127(5):563-566, 1973. PIL

GOURLAY, R.N.
Isolation and characterization of mycoplasma viruses.
In: Pathog. Mycoplasmas; a Ciba Found. Symp., 1972, p. 145-164. New York, Elsevier, x, 404 p., illus., 1972. QR 82.M9[illegible]99

HORNE, R.W.
Comparison between the structure of animal and plant mycoplasmas: extracellular and intracellular morphology.
In: Pathog. Mycoplasmas; a Ciba Found. Symp., 1972, p. 39-66. New York, Elsevier, x, 404 p., illus., 1972. QR 82.M93 [illegible]9

PETISCA, J.L.N., and LIMPO SERRA, J.J.B.
Anatomia patologica de algumas doencas dos animais domesticos. VII. Peripneumonia exsudativa dos bovinos. [Pathology of diseases of domestic animals. VII. Contagious bovine pleuropneumonia.] Vet. Mocamb. (Mozambique) 5(1):1-5, 1972 (Port., engl., fr., ital.).
Index Vet. 41(4):118, 1973. P[illegible]

RODWELL, A.W., PETERSON, J.E., and RODWELL, E.S.
Macromolecular synthesis and growth of mycoplasmas.
In: Pathog. Mycoplasmas; a Ciba Found. Symp., 1972, p. 123-144. New York, Elsevier, x, 404 p., illus., 1972. QR 82.M93 S99

ROTTEM, S., HASIN, M., and RAZIN, S.
Binding of proteins to mycoplasma membranes.
Biochim. Biophys. Acta 298(4):876-886, 1973. P[illegible]

USKAVITCH, R., comp.
Contagious bovine pleuropneumonia and Mycoplasma mycoides var. mycoides; a bibliography, Supplement No. 3, May 1972 - April 1973. Greenport, L.I., N.Y., U.S. Dep. Agric., Agric. Res. Serv., Plum Island Anim. Dis. Lab., 10 p., a,b,c, 1973. #8053/3

WESTERBERG, S.C., SMITH, C.B., and RENZETTI, A.D.
Mycoplasma infections in patients with chronic obstructive pulmonary disease.
J. Infect. Dis. 127(5):491-497, 1973. P[illegible]

CONTAGIOUS ECTHYMA OF SHEEP

MAKAROVA, E.V., and others.*
Pitatel'naya potrebnost' kul'tury kletok pochechnogo epiteliya ovtsy, obespechivayushchaya razmnozhenie virusa kontagioznoi ektimy in vitro. [Nutritional requirements of the sheep kidney epithelial cell culture for reproduction of the contagious ecthyma virus in vitro.] --Continued p. 70.

MAKAROVA, E.V., AND OTHERS.* (continued from p. 69)
Izv. Akad. Nauk Kirg. SSR 5:43, 1971 (Russ.).
Biol. Abstr. 55(8):4767(46639), 1973.
*Ts. Ts. Khandnev, S.I. Faizulina, and E.D. Imanov. PIL

POULAIN, J., GOURREAU, J.-M., and DAUTIGNY, A.
Ecthyma contagieux du mouton: anticorps seriques neutralisants. [Contagious pustular dermatitis of sheep: neutralizing antibody.] English summary.
Ann. Rech. Vet. 3(4):571-579, 1972. PIL

PODPONOV, A.N.
Kontagioznaya ektima. [Contagious ecthyma.]
Vestn. Dermatol. Venerol. 46(6):72-74, 1972 (Russ., with Engl. summ.).
Biol. Abstr. 55(7):3931(38443), 1973. PIL

EAST COAST FEVER

VAN DEN ENDE, M., and EDLINGER, E.
Culture de lignees lymphocytaires bovines infectees par Theileria annulata. [Culture of lines of bovine lymphocytes infected by Theileria annulata.]
Arch. Inst. Pasteur Tunis 48(1/2):45-54, 1971.
Biol. Abstr. 55(7):4021(39309), 1973. PIL

EPHEMERAL FEVER

DYCE, A.L., STANDFAST, H.A., and KAY, B.H.
Collection and preparation of biting midges (fam. Ceratopogonidae) and other small Diptera for virus isolation.
J. Aust. Entomol. Soc. 11(2):91-96, 1972.
Biol. Abstr. 55(7):3732(36475), 1973. PIL

MANI, P.
La febbre bovina epizootica (Ephimeral fever). English summary.
Zooprofilassi 27(9-10):418-432, 1972. PIL

SUPEKAR, P.G.
Dengue fever of cattle.
Farmer Parliament 7(6):17-18, 29, 1972.
Bibliogr. Agric. 37(3):59(02642), 1973. PIL

FOOT-AND-MOUTH DISEASE

AFZAL, H.
Some observations on serum sickness in cattle following immune therapy.
Pak. J. Sci. 23(3/4):139-142, 1971 (Engl.).
Index Vet. 41(4):31, 1973. PIL

ALMADA, E.R., and ROMERO, J.P.
Perspectives for a training program.
In: Inter-Am. Meet. Minist. Level Foot-and-Mouth Dis. and Zoonoses Control, 6th, Medellin, Colombia, 1973, RICAZ6/13 [Tab No. 13], 5 p. Washington, D.C., Pan Am. Health Organ., 1973. SF 793 I2

ANON.
E.E.C. must not threaten the health of our pigs.
Farmers Wkly., p., April 6, 1973.
Vet. Rec. 92(16):428, 1973. PIL

ANON.
Swine vesicular disease.
Vet. Rec. 92(15):402-403, 1973. PIL

ANON.
Las vacunas contra la aftosa. [Vaccines against foot-and-mouth disease.]
PAL (Pedro y Antonio Lanusse S.A.) p. 338-339, October 1972 (Span.).
Bibliogr. Agric. 37(4):59(033816), 1973. PIL & #8727

BAHNEMANN, H.G.
The inactivation of foot-and-mouth disease virus by ethylenimine and propylenimine.
Mimeogr. copy, 12 p., 3 tables, [1973?]. #6760

BEIER, D., and ANDERS, A.
Untersuchungen über den Einfluss der MKS-Vakzinierung auf das weisse Blutbild des Rindes.
[Studies into the effect of FMD immunisation on the white blood count of cattle.]
English summary.
Monatsh. Veterinärmed. 28(7):254-256, 1973. PIL

BONDARENKO, H.F., and others.*
On immunity against foot-and-mouth disease type A22 in cattle.
Veterinariya (Kiev) 32:37-40, 1972 (Ukr.).
Bibliogr. Agric. 37(3):64(023950), 1973.
*K.I. Dmytriiev, H.M. Zadorozhnyi, and A.I. Subotina. PIL

BOUCHER, D.W., and NOTKINS, A.L.
Virus-induced diabetes mellitus. I. Hyperglycemia and hypoinsulinemia in mice infected with encephalomyocarditis virus.
J. Exp. Med. 137(5):1226-1239, 1973. PIL

BUSYGIN, K.F.
Obtaining foot and mouth disease hyperimmune serum from guinea-pigs treated with pentoxyl.
Uch. Zap. Kazan. Vet. Inst. 112:15-18, 1972(Russ.).
Index Vet. 41(4):87, 1973. PIL

CAMPBELL, C.H., RICHMOND, J.Y., and McKERCHER, P.D.
Enhancement by divinyl ether-maleic anhydride of the antibody response in mice and swine to foot-and-mouth disease vaccine.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 252(V349), 1973. PIL/A

CHEMA, S.
Antigenic and physicochemical properties of picornaviruses: a comparative study of human and animal enteroviruses and rhinoviruses.
Thesis-Ohio State Univ.-Ph.D., viii, 111 p., illus., 1970. Publ. by Univ. Microfilms, Ann Arbor, 1970, No. 71-7491. SF 793 C45-/ Microfilm

DEUTRICH, V., and GRÜNBERG, G.
Einige Probleme der Integration von veterinärmedizinischen Kräften in Betriebe der industriemässigen Milchproduktion. [Some problems related to integration of veterinary staff with facilities of industrialised dairy production.]
English summary.
Monatsh. Veterinärmed. 28(8):282-286, 1973. PIL

FAYET, M.T., and others.*
Study of two double-stranded ribonucleic acids of viral origin: interferon inducing and antiviral activities.
In: Prog. Immunobiol. Stand., v. 5:267-273, ed. by R.H. Regamey, and F.T. Perkins. New York, S. Karger, xiii, 568 p., illus., 1972.
*R. Branche, E. Falcoff, R. Falcoff, J. Cherby, Y. DeRatuld, and G.H. Werner. QH 301 Y2

FICARELLI, R.
Aspetti clinici degli eczemi da vaccinazione antiaftosa nel bovino. [Clinical features of the eczema caused in cattle by foot and mouth disease vaccination. (Description of film)]
Atti Soc. Ital. Buiatria 4:172-173, 1972 (Ital., engl., fr.).
Index Vet. 41(4):95, 1973. PIL

GIZATULLIN, Kh.G.
Interferon and properdin in foot and mouth disease.
Uch. Zap. Kazan. Vet. Inst. 112:3-5, 1972 (Russ.).
Cited in: Vet. Bull. 43(5):261(2027), 1973. PIL

GIZATULLIN, Kh.G., and others.*
Distinguishing foot and mouth disease antigen from normal antigen by measuring the electrical conductivity of virus-containing samples.
Uch. Zap. Kazan. Vet. Inst. 112:19-29, 1972(Russ.).
Index Vet. 41(4):98, 1973.
*K.F. Busygin, V.A. Trenin, and A. Ya. Zverev. PIL

GORSKII, B.V.
Disinfection of skim milk, whey and butter milk in foot and mouth disease.
Uch. Zap. Kazan. Vet. Inst. 112:6-11, 1972 (Russ.).
Index Vet. 41(4):98, 1973. PIL

GORSKII, B.V., SIBGATULLIN, R.S., and GOSMANOV, R.G.
Inactivation of foot and mouth disease virus in skim milk subjected to the action of Lactobacillus acidophilus.
Uch. Zap. Kazan. Vet. Inst. 112:12-14, 1972 (Russ.).
Index Vet. 41(4):98, 1973. PIL

INSTITUTO COLOMBIANO AGROPECUARIO (ICA). MINISTERIO DE AGRICULTURA. DIVISION DE COMUNICACIONES.
La fiebre aftosa el mayor enemigo de la ganaderia, [by] A. Morales A., [and] W. Medina M.
Bogota, Columbia, ICA, var. p. (Plegable Divulg. No. 87), 1972 (Port.). #6867/4

INSTITUTO COLOMBIANO AGROPECUARIO (ICA). MINISTERIO DE AGRICULTURA. DIVISION DE COMUNICACIONES.
Vacunacion la mejor defensa contra la fiebre aftosa, [by] R.S. Ysaac, [and] C.C. Mouthon.
Bogota, Columbia, ICA, var. p. (Plegable Divulg. No. 86), 1972 (Port.). #6867/3

KHALITOVA, N.G.
Antiviral action of emetine in foot and mouth disease.
Uch. Zap. Kazan. Vet. Inst. 112:73-75, 1972 (Russ.).
Index Vet. 41(4):105, 1973. PIL

KHAZIPOV, N.Z., TYURIKOVA, R.P., and KRIVOVA, T.S.
Fractionation of foot and mouth disease virus in DEAE-cellulose columns.
Uch. Zap. Kazan. Vet. Inst. 112:60-62, 1972 (Russ.).
Index Vet. 41(4):105, 1973. PIL

KOROLEV, E.A., KHAFIZOV, R.T., and BUSYGIN, K.F.
Purification and concentration of foot and mouth disease virus by using calcium phosphate.
Uch. Zap. Kazan. Vet. Inst. 112:36-39, 1972 (Russ.).
Index Vet. 41(4):106, 1973. PIL

KRIVOVA, T.S., and KHAZIPOV, N.Z.
Immunogenicity of components of foot and mouth disease virus (obtained by ion-exchange chromatography).
Uch. Zap. Kazan. Vet. Inst. 112:45-49, 1972 (Russ.).
Index Vet. 41(4):107, 1973. PIL

KUROCHKIN, V.I.
Effect of methyluracil on the course of foot and mouth disease, properdin level and plasma cell reaction in lymph nodes of guinea-pigs.
Uch. Zap. Kazan. Vet. Inst. 112:30-32, 1972 (Russ.).
Index Vet. 41(4):107, 1973. PIL

LEBEDEV, A.I., RATNER, L.S., and OKOVYTYI, A.S.
Isolating and studying infectious RNA from foot and mouth disease viruses of SAT-1 and O type.
Byull. Vses. Inst. Eksp. Vet. (8):134-142, 1970 (Russ.).
Chem. Abstr. 78(19):142(120468r), 1973. PIL

LOBO A., Cc. A.
Foot-and-mouth disease.
Soc. Antioquena Agric. Bol. Agric. 622: 12839-12842, 1972 (Span.).
Bibliogr. Agric. 37(3):63(23870), 1973. PIL

LOESCH, W.T., Jr., TSAI, S.Y., and ARLINGHAUS, R.B.
Studies on the structure and function of the mengovirus replication complex.
Fed. Proc. 32(3, Part 1):462Abs(1344), 1973. PIL

PAN AMERICAN HEALTH ORGANIZATION. PAN AMERICAN FOOT-AND-MOUTH DISEASE CENTER.
Foot-and-mouth-disease programs in South America 1967-1971. [Rio de Janeiro] Pan Am. Foot-and-Mouth Dis. Center, iii, 133 p.(and tables), illus., 1973. SF 793 P18

PODREZOVA, E.A.
About resistance of virus of foot and mouth disease to external conditions.
Sib. Vestn. S-kh. Nauk (2):70-71, 1972 (Russ.).
Bibliogr. Agric. 37(4):60(033874), 1973. PIL

PRASAD, S., and SINGH, I.P.
A note on the application of conglutinating-complement-absorption test for typing of foot-and-mouth disease virus.
Indian J. Anim. Sci. 42(9):684-685, 1972. PIL

RAVILOV, A.Z., and VASLYANINA, N.I.
Dynamics of formation of precipitating antibodies to foot and mouth disease virus in the serum of rats.
Uch. Zap. Kazan. Vet. Inst. 112:50-53, 1972 (Russ.).
Index Vet. 41(4):120, 1973. PIL

RAVILOV, A.Z., SHAFIKOVA, R.A., and SHARAFUTDINOVA, K.N.
Occurrence of complement-fixing antibodies to foot and mouth disease virus in ascitic fluid of rats.
Uch. Zap. Kazan. Vet. Inst. 112:54-57, 1972 (Russ.).
Index Vet. 41(4):120, 1973. PIL

REED, G.A.
Is it foot and mouth disease?
J. Agric. (Melbourne) 70(10):386-388, 1972.
Bibliogr. Agric. 37(4):57(033706), 1973. PIL

REEVES, J.D., and MAYOR, H.D.
The effects of hydrogen ions on the morphology and infectivity of rhinovirions.
Arch. Gesamte Virusforsch. 40(3-4):325-333, 1973. PIL

RICHMOND, J.Y., CAMPBELL, C.H., and McKERCHER, P.D.
Enhancement of antigen-specific resistance by divinyl ether-maleic anhydride in mice to foot-and-mouth disease vaccine.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 252(V348), 1973. PIL/A

SANTERO, G.G.
The "rotary column" method for growth of large-scale quantities of cell monolayers.
Biotechnol. Bioeng. 14(5):753-775, 1972. #6764

SHARMA, R.N., and DATT, N.S.
Studies on the effect of inactivated gel, saponified gel and saponified vaccines against types 'A', 'O', 'C' and 'Asia 1' of foot-and-mouth disease.
Indian J. Anim. Sci. 42(9):686-692, 1972. PIL

SHARMA, R.N., and DATT, N.S.
Studies on the effect of inactivated gel, saponified gel and saponified vaccines against types 'O', 'A', and 'Asia 1' of foot-and-mouth disease in mice.
Indian J. Anim. Sci. 42(9):693-695, 1972. PIL

SHISHKINA, K.A.
Antigenicity of foot and mouth disease virus culture inactivated with ultraviolet light.
Uch. Zap. Kazan. Vet. Inst. 112:33-35, 1972 (Russ.).
Index Vet. 41(4):125, 1973. PIL

SHISHKINA, K.A., LUK'YANENKO, N.G., and VASLYANINA, N.I.
Use of the neutralization test in studying the immunogenicity of ultraviolet-inactivated vaccine against foot and mouth disease (in mice).
Uch. Zap. Kazan. Vet. Inst. 112:63-65, 1972 (Russ.).
Index Vet. 41(4):125, 1973. PIL

SIBGATULLIN, R.S.
Cytoserological (plasma cell) reaction in guinea-pigs inoculated with foot and mouth disease vaccine.
Uch. Zap. Kazan. Vet. Inst. 112:40-44, 1972 (Russ.).
Index Vet. 41(4):125, 1973. PIL

SIM, C., and WATSON, D.H.
The role of type specific and cross reacting structural antigens in the neutralization of herpes simplex virus types 1 and 2.
J. Gen. Virol. 19(2):217-233, 1973. PIL

TERPLAN, G., and ZAADHOF, K.J.
Effect of foot-and-mouth disease vaccination on fitness of milk for cheese dairy.
Molk-ztg. Welt. Milch 26(51/52):1674-1676, 1678-1679, 1972 (Ger.).
Bibliogr. Agric. 37(5):63(044482), 1973. PIL

UPPAL, P.K., and KUMAR, S.
Problem of foot and mouth disease and its control.
Indian Farming 22(6):129-131, 1972.
Bibliogr. Agric. 37(4):57(033679), 1973. PIL

VASLYANINA, N.I., SHISHKINA, K.A., and LUK'YANENKO, N.G.
Precipitating antibodies in the serum of animals (rats) immunized with foot and mouth disease vaccine inactivated by ultraviolet light.
Uch. Zap. Kazan. Vet. Inst. 112:58-59, 1972 (Russ.).
Index Vet. 41(4):132, 1973. PIL

YOUNG, E., HEDGER, R.S., and HOWELL, P.G.
Clinical foot-and-mouth disease in the African buffalo (Syncerus caffer).
Onderstepoort J. Vet. Res. 39(3):181-183, 1972. PIL

ZNACHKOVA, V.G.
Thiol groups of foot and mouth disease virus protein.
Uch. Zap. Kazan. Vet. Inst. 112:70-72, 1972 (Russ.).
Index Vet. 41(4):137, 1973. PIL

ZNACHKOVA, V.G., KHAZIPOV, N.Z., and KRIVOVA, T.S.
Separation of foot and mouth disease virus protein by electrofocussing.
Uch. Zap. Kazan. Vet. Inst. 112:66-69, 1972 (Russ.).
Index Vet. 41(4):137, 1973. PIL

FOWL PLAGUE

KLENK, H.-D.
On the biosynthesis of influenza virus glycoproteins.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 215(V123), 1973. PIL

LIPKIND, M.A., TSVETKOVA, I.V., and GRIBKOVA, N.V.
Neuraminidase and hemagglutinin activities in subcellular fractions of NDV- and FPV-infected chick embryo cells and their re-distribution following Triton X100 treatment.
Arch. Gesamte Virusforsch. 40(3-4):300-306, 1973. PIL

SOKOLOV, M.I., and MYASNIKOVA, I.A.
Mutagennoe deistvie UF-luchei na virus istinnoi chumy ptits. Selektsiya i kharakteristika nekotorykh svoistv plyus- i minusa UF-mutantov.
[Mutagenic effect of UV rays on fowl plague virus. I. Selection and characterization of some properties of plus and minus UV-mutants.]
Vopr. Virusol. 17(4):453-458, 1972(Russ.,w/Engl. summ.).
Biol. Abstr. 55(8):4404(43096), 1973. PIL

FOWL PLAGUE

WEBSTER, R.G.
On the origin of pandemic influenza viruses.
In: Curr. Top. Microbiol. Immunol. 59:75-105, ed. by W. Arber, and others. New York, Springer-Verlag, 244 p., illus., 1972. QR 360 C4

GOAT POX

SAWHNEY, A.N., SINGH, A.K., and MALIK, B.S.
Goat-pox: an anthropozoonosis.
Indian J. Med. Res. 60:683-684, 1972.
Vet. Bull. 43(4):193(1573), 1973. PIL

LOUPING ILL

COLE, G.A., WISSEMAN, C.L., Jr., and NATHANSON, N.
Pathogenesis of type 1 dengue virus infection in suckling, weaned and adult mice.
II. Immunofluorescent and histological studies.
J. Comp. Pathol. 83(2):243-252, 1973. PIL

HOBSON, G.
Louping-ill in a working collie.
Vet. Rec. 92(16):436, 1973. PIL

KAVANAGH, P.J., and PURCELL, D.A.
Disease spread by ticks.
Agric. North Irel. 47(8):282-284, 1972.
Bibliogr. Agric. 37(4):139(038557), 1973. PIL

MacKENZIE, C.P., and others.*
Louping-ill in a working collie.
Vet. Rec. 92(14):354-356, 1973.
*N.D. Lewis, S.T. Smith, and R.W. Muir. PIL

SCRAPIE

HUNTER, G.D., and MILLSON, G.C.
Glycoprotein biosynthesis in normal and scrapie-affected mouse brain.
J. Comp. Pathol. 83(2):217-224, 1973. PIL

MARSH, R.F., MEDAPPA, K.C., and RUECKERT, R.R.
Is scrapie a viroid? Search for infectious nucleic acid.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 199(V28), 1973. PIL

MERZ, G.S., and others.*
Ultraviolet irradiation of the scrapie associated factor responsible for decreased % polymorphonuclear neutrophils (PMN).
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 199(V29), 1973.
*P.A. Merz, R.I. Carp, and K.S. Kim. PIL

SCRAPIE

NEWELL, J.
Strange nature of scrapie virus.
Food Farming Agric. 4(2):21-22, 1972.
Bibliogr. Agric. 37(4):56(033654), 1973. PIL

SHEEP POX

HASEBE, H.
Studies on sheep pox in Inner Mongolia.
I. Epizoobiological survey and prophylaxis and treatment with immune serum.
Nippon Vet. Zootech. Coll. Bull. 21:65-69, 1972 (Jap., w/Engl. summ.).
Bibliogr. Agric. 37(5):64(044513), 1973. PIL

TESCHEN DISEASE

RAMISSE, J., and others.*
Etude des proprietes biologiques du virus de l'encephalomyelite porcine malgache.
[Study of biological properties of malagasy porcine encephalomyelitis virus.]
English summary.
Rev. Elev. Med. Vet. Pays Trop. 25(4):497-506, 1972.
*H. Serres. P. Rasolofomanana, E. Rakotondramary, and R. Randriamampianina. PIL

VENEZUELAN EQUINE ENCEPHALOMYELITIS

ADLER, W.H., and RABINOWITZ, S.G.
Host defenses during primary Venezuelan equine encephalomyelitis virus infection in mice.
II. *In vitro* methods for the measurement and qualitation of the immune response.
J. Immunol. 110(5):1354-1362, 1973. PIL

ANON.
Venezuelan equine encephalomyelitis.
Rev. Med. Vet. (Sao Paulo) 7(3):279-287, 1972(Port.).
Index Vet. 41(4):25, 1973. PIL

BARBER, T.L., and FOSTER, N.M.
Concentration, partial purification, inactivation and immunogenicity of Venezuelan equine encephalomyelitis virus.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 254(V357), 1973. PIL

BARON, S., and others.*
Interferon.
Science (Wash., D.C.) 180(4087):779-784, 1973.
*N.B. Finter, G.J. Galasso, L.A. Glasgow, H.B. Levy, and J.S. Youngner. PIL

GARCIA TAMAYO, J., and RYDER, S.
Ultrastructural aspects on the phenomenon of hemagglutination with Venezuelan equine encephalitis virus.
Acta Cient. Venez. 23(Suppl. 1):64, 1972.
Biores. Index 9(3):479(20947), 1973. PIL

JONES, R.H., POTTER, H.W., and RHODES, H.A.
Ceratopogonidae attacking horses in south Texas during 1971 VEE (Venezuelan equine encephalitis) epidemic.
Mosq. News 32(4):507-509, 1972.
Bibliogr. Agric. 37(4):59(033802), 1973. PIL

KARABATSOS, N.
Density gradient characterization of disrupted and untreated eastern encephalitis virus.
Arch. Gesamte Virusforsch. 40(3-4):222-235, 1973. PIL

LEVITT, N.H., and others.*
In utero induction of cataracts and hydrocephalus in rhesus monkeys using Venezuelan equine encephalitis virus.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 226(V189), 1973.
*W.T. London, S.G. Kent, and J.L. Sever. PIL

McMANUS, A.T., EDDY, G.A., and KASTELLO, M.D.
Temporal appearance of circulating virus, interferon and antibody in Venezuelan equine encephalomyelitis (VEE) infected rhesus monkeys.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 226(V193), 1973. PIL

NAEVE, C.W., and PARIKH, G.C.
A comparative analysis of the sequence of VEE and WEE virus RNA synthesis in Aedes albopictus tissue culture.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 254(V360), 1973. PIL

NOVOKHATSKY, A.S.
Comparative study of thermoinactivation of the hemagglutinating and infectious activity of Venezuelan equine encephalomyelitis virus.
Vopr. Virusol. (2):163- , 1973 (Russ.,w/ Engl. abst.).
Curr. Contents-Life Sci. 16(20):58, 1973. PIL

PANCAKE, B.A., and SCHERER, W.F.
Use of chicken antisera in HI tests to differentiate Central American and Mexican epizootic and enzootic Venezuelan encephalitis viruses.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 253(V356), 1973. PIL

PARKER, R.L., DEAN, P.B., and ZEHMER, R.B.
Public health aspects of Venezuelan equine encephalitis.
J. Am. Vet. Med. Assoc. 162(9):777-779, 1973. PIL

RYDER, S.
Ecological studies on Venezuelan equine encephalitis in the Guajira area: preliminary results.
Acta Cient. Venez. 23(Suppl. 1):58-59, 1972.
Biores. Index 9(3):479(20933), 1973. PIL

RYDER, S., RYDER, E., and GARCIA TAMAYO, J.
Physical and morphological properties of purified Venezuelan equine encephalitis from the new born mouse brain.
Acta Cient. Venez. 23(Suppl. 1):64, 1972.
Biores. Index 9(3):479(20946), 1973. PIL

U.S. DEPARTMENT OF AGRICULTURE. ANIMAL AND PLANT HEALTH INSPECTION SERVICE. VETERINARY SERVICES.
The origin and spread of Venezuelan equine encephalomyelitis. Hyattsville, Md., i, 51 p., illus. (APHIS 91-10), 1973. GOV.PUBL.DRWR.

URYVAEV, L.V., and others.*
Investigation of the phenomenon of complexing of viral RNA with cell proteins.
Vopr. Virusol. (6):670-676, 1972 (Russ., with Engl. abstr.).
Curr. Contents-Life Sci. 16(4):78, 1973.
Bibliogr. Agric. 37(3):65(023982), 1973.
*T.M. Sokolova, F.I. Ershov, and V.M. Zhdanov. PIL

WIKTOR, T.J., and CLARK, H.F.
Application of the plaque assay technique to the study of rabies virus-neutralizing antibody interactions.
Ann. Microbiol. (Inst. Pasteur) 124A(2):271-282, 1973. PIL

VESICULAR STOMATITIS VIRUS

ARDANS, A.A., PRITCHETT, R.F., and ZEE, Y.C.
Isolation and characterization of an equine adenovirus.
Infect. Immun. 7(4):673-677, 1973. PIL

BLALOCK, J.E., and GIFFORD, G.E.
Effect of vitamin A and a nonionic surface active agent on vesicular stomatitis virus plaque formation and on interferon action.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 205(V67), 1973. PIL

BROWN, P., BESANCON, F., and CHANY, C.
The effects of an acid pH upon the induction of antiviral resistance in vitro by interferon.
Proc. Soc. Exp. Biol. Med. 142(4):1195-1199, 1973. PIL

CAMYRE, K.P., GROELKE, J.W., and ALBRECHT, W.L.
Viral photoinactivation: a property of some tilorone-related compounds.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 260(V397), 1973. PIL

DEGRE, M.
Influence of polyinosinic:polycytidylic acid on the circulating white blood cells in mice.
Proc. Soc. Exp. Biol. Med. 142(4):1087-1091, 1973. PIL

FLAMAND, A., and LAFAY, F.
Etude des mutants thermosensibles du virus de la stomatite vesiculaire appartenant au groupe de complementation II. [Thermosensitive mutants of vesicular stomatitis virus, study of complementation group II.] English summary.
Ann. Microbiol. (Inst. Pasteur) 124A(2):261-269, 1973. PIL

GAINER, J.H.
Effects of arsenicals in interferon formation and action.
Am. J. Vet. Res. 33(12):2579-2586, 1972. PIL

HUNT, J.M., and MARCUS, P.I.
Sindbis virus-induced intrinsic interference with vesicular stomatitis virus replication.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 238(V265), 1973. PIL

KANO, S., BLOOM, B.R., and HOWE, M.
Enumeration of activated and cytotoxic T-lymphocytes by the virus plaque assay.
Fed. Proc. 32(3, Part 1):997Abs(4381), 1973. PIL

KATES, J.R., RADKE, K.L., and COLBY, C.
Requirement for the cell nucleus in the interferon-induced antiviral state.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 239(V267), 1973. PIL

KINGSBURY, D.W.
Paramyxovirus replication.
In: Curr. Top. Microbiol. Immunol. 59:1-33, ed. by W. Arber, and others. New York, Springer-Verlag, 244 p., illus., 1972. QR 360 C4

KOST, T.A., and HAYES, E.C.
Effect of cyclic AMP on the antiviral activity of interferon.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 260(V393), 1973. PIL

KRAMER, M.J., CLEELAND, R., and GRUNBERG, E.
Antiviral effect of ascorbic acid.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73:206(V72), 1973. PIL

MARCUS, P.I., and SEKELLICK, M.J.
Cell killing by vesicular stomatitis virus (VSV).
Abstr. Annu. Meet. Am. Soc. Microbiol. 73:
239(V266), 1973. PIL

NOWAKOWSKI, M., SUMMERS, D.F., and BLOOM, B.R.
Restricted replication of vesicular stomatitis virus (VSV) in human lymphoblastoid cell lines.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73:
250(V337), 1973. PIL

PALMA, E.L., and HUANG, A.S.
The role of defective interfering particles in cell cultures persistently infected with vesicular stomatitis virus (VSV).
Abstr. Annu. Meet. Am. Soc. Microbiol. 73:
250(V338), 1973. PIL

PITHA, P.M., and others.*
Inhibition of murine leukemia virus replication by polyvinyluracil and polyvinyladenine.
Fed. Proc. 32(3, Part 1):462Abs(1347), 1973.
*N.M. Teich, D.R. Lowy, and J. Pitha. PIL

RAGER-ZISMAN, B., and MERIGAN, T.C.
A useful quantitative semimicromethod for viral plaque assay.
Proc. Soc. Exp. Biol. Med. 142(4):1174-1179, 1973. PIL

ROY, P., and BISHOP, D.H.L.
Initiation and direction of RNA transcription by vesicular stomatitis virus virion transcriptase.
J. Virol. 11(4):487-501, 1973. PIL

SCHEIRER, W.
Experience with an image-analyzing computer in virus plaque measurements.
Appl. Microbiol. 25(4):641-643, 1973. PIL

STAMPFER, M., and BALTIMORE, D.
Identification of the vesicular stomatitis virus large protein as a unique viral protein.
J. Virol. 11(4):520-526, 1973. PIL

THACORE, H.R., and YOUNGNER, J.S.
Vaccinia infection of L-cells reverses interferon-induced resistance against vesicular stomatitis virus.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73:
206(V68), 1973. PIL

VISNA DISEASE

AUGUST, M., and HARTER, D.H.
Visna virus-induced fusion of continuous simian kidney cells.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73:212(V105),1973. PIL

CHANG, S.S., and TAKEMOTO, K.K.
Interference of murine leukemia and sarcoma viruses by visna virus.
In Vitro 7(4):257, 1972.
Biores. Index 9(3):565(24736), 1973. PIL

LIN, F.H., GENOVESE, M., and THORMAR, H.
Separation of three polypeptides from visna viral DNA polymerase.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 232(V225), 1973. PIL

MACINTYRE, E.H., WINTERSGILL, C.J., and VATTER, A.E.
Multilayering induced in vitro by a mutant of visna virus.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 250(V335), 1973. PIL

TORCHIO, C., TROWBRIDGE, R.S., and THORMAR, H.
Isolation of strain K796 visna virus plaque variants by an improved plaque assay.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 208(V84), 1973. PIL

WESSELSBRON DISEASE

OLSON, L.C., and others.*
Macrophages and the pathogenesis of virus infection.
Abstr. Annu. Meet. Am. Soc. Microbiol. 73: 245(V304), 1973. PIL

MISCELLANEOUS

HENSON, J.B., and GORHAM, J.R.
Animal model of human disease: persistent viral infections, immunologically mediated glomerulonephritis and arteritis, dysgammopathies.
Am. J. Pathol. 71(2):345-348, 1973. PIL

MOZES, E., and SHEARER, G.M.
Genetic control of immune responses.
In: Curr. Top. Microbiol. Immunol. 59:167-200, ed. by W. Arber, and others. New York, Springer-Verlag, 244 p., illus., 1972. QR 360 C4

PAYNE, F.E., and BAUBLIS, J.V.
Decreased reactivity of SSPE strains of measles virus with antibody.
J. Infect. Dis. 127(5):505-511, 1973. PIL

SUTMOLLER, P.
Information retrieval computer program IR6 for laboratory research records.
Unpubl., mimeogr. copy, var. p., [1973]. (PIL/A) #7370